

REMARKS

Claims 1-14 and 16-26 are pending. Claims 1-13 and 18-26 have been allowed, claims 12, 14, 16, and 17 have been amended, and claim 15 has been canceled. The specification and abstract have been amended to overcome the objections thereto, and replacement sheets have been submitted with this paper to overcome the drawing objections.

Reconsideration of the application is respectfully requested for the following reasons.

Concerning the claim objections, claim 12 has been amended to include the words “interference free window” before “IFW” as requested by the Examiner. The objection to claim 4 is traversed on grounds that claim 3, from which claim 4 depends, includes antecedent basis sufficient to support “the prescribed condition;” see, for example, the last line of claim 3 which recites “a prescribed condition.”

Claim 14 has been amended to recite the features of allowable claim 15, now canceled from the application.

Claim 16 has been amended to recite “generating at least one code pair based on *a center of at least one element of the representative orthogonal code set* and at least one element included in the selected code pair set.” (Emphasis added). These features are not taught or suggested by the Rice, APA, and Jou references, whether taken alone or in combination.

Specifically, the Rice publication discloses generating binary spreading-code sequences using Gold code, symmetric, or Kasami code sequences. A unique set of multiple spreading-code sequences are then selected. Unlike the claim 16, however, this selection is based upon the information to be conveyed. (See Paragraph [45].) The Rice publication does not teach or suggest generating at least one code pair based on “a center of at least one element of the representative orthogonal code set” as recited in claim 16.

APA and Jou are also deficient in this respect. APA was cited for disclosing allocating spreading codes to I and Q branches based on a modulation scheme, and Jou was cited for disclosing spreading information in each channel using a unique spreading sequence. APA and Jou do not teach or suggest generating at least one code pair based on “a center of at least one element of the representative orthogonal code set” as recited in claim 16.

Claim 17 has been amended to recite “allocating a code order according to a prescribed rule based upon at least one element of the selected code set, wherein the at least one element is arrayed in an ascending order.” The cited references do not teach or suggest these features. The Rice publication discloses assigning various spreading-code sequences to the nodes of a network. However, neither Rice nor the other two cited references teaches or suggests allocating a code order based on at least one element of a selected code set, where the at least one element is arrayed in an ascending order.

It is respectfully submitted that the foregoing amendments are sufficient to patentably distinguish claims 16 and 17 from the cited references. Withdrawal of all the objections and rejections in the Office Action is respectfully requested.

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance of the application is respectfully requested.

To the extent necessary, Applicants petition for an extension of time under 37 CFR § 1.136. Please charge any shortage in fees due in connection with this application to Deposit

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Account No. 16-0607 and credit any excess fees to the same Deposit Account.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'Daniel Y. J. Kim', written over a horizontal line.

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Amendments to the Drawings

Replacement sheets for Figs. 4 and 5 have been submitted with this paper to more legibly show the subject matter contained therein.